



LNP™ STAT-LOY™ Compound AX11421

Americas: COMMERCIAL

Also known as: LNP™ STAT-LOY™ Compound AX11421

Product reorder name: AX11421

LNP STAT-LOY AX11421 is a compound based on ABS resin. Added feature of this material is: Antistatic.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	300	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	210	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	48	%	ASTM D 638
Tensile Modulus, 5 mm/min	14300	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	440	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	13700	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	30	MPa	ISO 527
Tensile Stress, break, 5 mm/min	21	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.4	%	ISO 527
Tensile Strain, break, 5 mm/min	81	%	ISO 527
Tensile Modulus, 1 mm/min	1310	MPa	ISO 527
Flexural Stress	44	MPa	ISO 178
Flexural Modulus, 2 mm/min	1330	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	NB	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	43	cm-kgf/cm	ASTM D 256
Multiaxial Impact	203	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	295	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	39	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	86	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	69	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.13E-04	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.26E-04	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	85	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	67	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.05	-	ASTM D 792
Density	1.05	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	2	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.9	%	ISO 294
Moisture Absorption (23°C / 50% RH)	3.7	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+07 - 1.E+09	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.5	mm	UL 94